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Claims

1. An oven comprising;
5 a charging portion for receiving material to be treated;
a rotatable changeover portion comprising an outer chamber and an inner
treatment chamber within the outer chamber;
and means to heat the inner treatment chamber externally thereof;
10 the oven being moveable between a first position in which the changeover
portion is generally higher than the charging portion and a second position in
which the charging portion is generally higher than the changeover portion;
the inner treatment chamber being adapted to receive material from the
charging portion as the oven moves from the first position to the second
15 position.
2. An oven as claimed in claim 1 in which means are provided for introducing a
flow of hot gasses through the outer treatment chamber so that, in use, the
gasses flow around at least part of the external surfaces of the inner treatment
20 chamber to heat the inner treatment chamber externally.
3. An oven as claimed in claim 1 or claim 2 further comprising means for
introducing a flow of hot gases through the inner treatment chamber.
4. An oven as claimed in claim 3, in which the means for introducing a flow of
25 hot gases comprises an array of inlet nozzles.
5. An oven as claimed in claim 4, in which the array of nozzles are located
adjacent a first side wall of the inner treatment chamber.
- 30 6. An oven as claimed in claim 5, in which the means for introducing a flow of
hot gases through the inner treatment chamber further comprises an outlet vent
through which the gasses can exit the inner treatment chamber.

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7. An oven as claimed in claim 6, in which the outlet vent is located in a second side wall of the inner treatment chamber opposite from the first wall.
- 5 8. An oven as claimed in claim 5 or claim 6, in which the outlet vent is positioned such that, in use, as the oven moves between the first and second positions, the material passing between the charging box and the inner treatment chamber does not fall through the outlet vent.
- 10 9. An oven as claimed in any previous claim, in which the oven is rotated in a first direction as it moves from the first position to the second position and is rotated in the opposite direction as it moves from the second position to the first position.
- 15 10. An oven as claimed in any one of claims 3 to 9, when dependent on claim 2, in which the oven further comprises a control means for regulating the flow and/or the oxygen content of gasses passing through the outer treatment chamber.
- 20 11. An oven as claimed in claim 10 when dependent on claim 3, in which the control means is also adapted to regulate the flow and/or oxygen level of the gasses flowing through the inner treatment chamber independently of the gases flowing through the outer treatment chamber.

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